

# North America and Europe Solid Oxide Fuel Cell (SOFC) Market by Manufacturers, Regions, Type and Application, Forecast to 2023

<https://marketpublishers.com/r/N21230296D7EN.html>

Date: April 2018

Pages: 103

Price: US\$ 4,480.00 (Single User License)

ID: N21230296D7EN

## Abstracts

A solid oxide fuel cell (or SOFC) is an electrochemical conversion device that produces electricity directly from oxidizing a fuel. Fuel cells are characterized by their electrolyte material; the SOFC has a solid oxide or ceramic electrolyte. Advantages of this class of fuel cells include high efficiency, long-term stability, fuel flexibility, low emissions, and relatively low cost. The largest disadvantage is the high operating temperature which results in longer start-up times and mechanical and chemical compatibility issues.

### Scope of the Report:

This report focuses on the Solid Oxide Fuel Cell (SOFC) in North America and Europe market, especially in United States, United Kingdom, Canada, Germany, France, Italy and Spain. This report categorizes the market based on manufacturers, countries/Regions, type and application.

Market Segment by Manufacturers, this report covers

Bloom Energy

Siemens Energy

Aisin Seiki

Mitsubishi Heavy Industries

Delphi Corp

GE

Convion

FuelCell Energy

Atrex Energy, Inc

SOLIDpower

ZTEK Corporation

Redox Power Systems

Ceres

Elcogen

Market Segment by Countries, covering

United States

United Kingdom

Canada

Germany

France

Italy

Spain

Market Segment by Type, covers

Tubular

Planar

Others

Market Segment by Applications, can be divided into

Transportation

Portable & Military

Stationary

There are 19 Chapters to deeply display the North America and Europe Solid Oxide Fuel Cell (SOFC) market.

Chapter 1, to describe Solid Oxide Fuel Cell (SOFC) Introduction, product type and application, market overview, market analysis by countries, market opportunities, market risk, market driving force;

Chapter 2, to analyze the manufacturers of Solid Oxide Fuel Cell (SOFC), with profile, main business, news, sales, price, revenue and market share in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the North America and Europe market by countries, covering United States, United Kingdom, Canada, France, Germany, Italy and Spain, with sales, price, revenue and market share of Solid Oxide Fuel Cell (SOFC), for each country, from 2013 to 2018;

Chapter 5 and 6, to show the market by type and application, with sales, price, revenue, market share and growth rate by type, application, from 2013 to 2018;

Chapter 7, 8, 9, 10, 11, 12 and 13 to analyze the key countries by manufacturers, Type and Application, covering 7 countries, with sales, revenue and market share by

*North America and Europe Solid Oxide Fuel Cell (SOFC) Market by Manufacturers, Regions, Type and Application,...*

manufacturers, types and applications;

Chapter 14, Solid Oxide Fuel Cell (SOFC) market forecast, by countries, type and application, with sales, price, revenue and growth rate forecast, from 2018 to 2023;

Chapter 15, to analyze the manufacturing cost, key raw materials and manufacturing process, etc.

Chapter 16, to analyze the industrial chain, sourcing strategy and downstream end users (buyers);

Chapter 17, to describe sales channel, distributors, traders, dealers, etc.

Chapter 18 and 19, to describe the research findings and conclusion, appendix, methodology and data source.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Solid Oxide Fuel Cell (SOFC) Introduction
- 1.2 Market Analysis by Type
  - 1.2.1 Tubular
  - 1.2.2 Planar
  - 1.2.3 Others
- 1.3 Market Analysis by Applications
  - 1.3.1 Transportation
  - 1.3.2 Portable & Military
  - 1.3.3 Stationary
- 1.4 Market Analysis by Countries
  - 1.4.1 United States Status and Prospect (2013-2023)
  - 1.4.2 Canada Status and Prospect (2013-2023)
  - 1.4.3 United Kingdom Status and Prospect (2013-2023)
  - 1.4.4 Germany Status and Prospect (2013-2023)
  - 1.4.5 France Status and Prospect (2013-2023)
  - 1.4.6 Italy Status and Prospect (2013-2023)
  - 1.4.7 Spain Status and Prospect (2013-2023)
- 1.5 Market Dynamics
  - 1.5.1 Market Opportunities
  - 1.5.2 Market Risk
  - 1.5.3 Market Driving Force

### 2 MANUFACTURERS PROFILES

- 2.1 Bloom Energy
  - 2.1.1 Business Overview
  - 2.1.2 Solid Oxide Fuel Cell (SOFC) Type and Applications
    - 2.1.2.1 Type
    - 2.1.2.2 Type
  - 2.1.3 Bloom Energy Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.2 Siemens Energy
  - 2.2.1 Business Overview
  - 2.2.2 Solid Oxide Fuel Cell (SOFC) Type and Applications
    - 2.2.2.1 Type

#### 2.2.2.2 Type

2.2.3 Siemens Energy Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.3 Aisin Seiki

#### 2.3.1 Business Overview

#### 2.3.2 Solid Oxide Fuel Cell (SOFC) Type and Applications

##### 2.3.2.1 Type

##### 2.3.2.2 Type

2.3.3 Aisin Seiki Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.4 Mitsubishi Heavy Industries

#### 2.4.1 Business Overview

#### 2.4.2 Solid Oxide Fuel Cell (SOFC) Type and Applications

##### 2.4.2.1 Type

##### 2.4.2.2 Type

2.4.3 Mitsubishi Heavy Industries Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.5 Delphi Corp

#### 2.5.1 Business Overview

#### 2.5.2 Solid Oxide Fuel Cell (SOFC) Type and Applications

##### 2.5.2.1 Type

##### 2.5.2.2 Type

2.5.3 Delphi Corp Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.6 GE

#### 2.6.1 Business Overview

#### 2.6.2 Solid Oxide Fuel Cell (SOFC) Type and Applications

##### 2.6.2.1 Type

##### 2.6.2.2 Type

2.6.3 GE Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.7 Convion

#### 2.7.1 Business Overview

#### 2.7.2 Solid Oxide Fuel Cell (SOFC) Type and Applications

##### 2.7.2.1 Type

##### 2.7.2.2 Type

2.7.3 Convion Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### 2.8 FuelCell Energy

- 2.8.1 Business Overview
- 2.8.2 Solid Oxide Fuel Cell (SOFC) Type and Applications
  - 2.8.2.1 Type
  - 2.8.2.2 Type
- 2.8.3 FuelCell Energy Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.9 Atrex Energy, Inc
  - 2.9.1 Business Overview
  - 2.9.2 Solid Oxide Fuel Cell (SOFC) Type and Applications
    - 2.9.2.1 Type
    - 2.9.2.2 Type
  - 2.9.3 Atrex Energy, Inc Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.10 SOLIDpower
  - 2.10.1 Business Overview
  - 2.10.2 Solid Oxide Fuel Cell (SOFC) Type and Applications
    - 2.10.2.1 Type
    - 2.10.2.2 Type
  - 2.10.3 SOLIDpower Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.11 ZTEK Corporation
  - 2.11.1 Business Overview
  - 2.11.2 Solid Oxide Fuel Cell (SOFC) Type and Applications
    - 2.11.2.1 Type
    - 2.11.2.2 Type
  - 2.11.3 ZTEK Corporation Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.12 Redox Power Systems
  - 2.12.1 Business Overview
  - 2.12.2 Solid Oxide Fuel Cell (SOFC) Type and Applications
    - 2.12.2.1 Type
    - 2.12.2.2 Type
  - 2.12.3 Redox Power Systems Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.13 Ceres
  - 2.13.1 Business Overview
  - 2.13.2 Solid Oxide Fuel Cell (SOFC) Type and Applications
    - 2.13.2.1 Type
    - 2.13.2.2 Type

2.13.3 Ceres Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.14 Elcogen

2.14.1 Business Overview

2.14.2 Solid Oxide Fuel Cell (SOFC) Type and Applications

2.14.2.1 Type

2.14.2.2 Type

2.14.3 Elcogen Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

### **3 NORTH AMERICA AND EUROPE SOLID OXIDE FUEL CELL (SOFC) MARKET COMPETITION, BY MANUFACTURER**

3.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Manufacturer (2016-2017)

3.2 North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Manufacturer (2016-2017)

3.2.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)

3.2.2 North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer (2016-2017)

3.3 North America and Europe Solid Oxide Fuel Cell (SOFC) Price by Manufacturers (2016-2017)

3.4 Market Concentration Rate

3.4.1 Top 3 Solid Oxide Fuel Cell (SOFC) Manufacturer Market Share (2016-2017)

3.4.2 Top 5 Solid Oxide Fuel Cell (SOFC) Manufacturer Market Share (2016-2017)

3.5 Market Competition Trend

### **4 NORTH AMERICA AND EUROPE SOLID OXIDE FUEL CELL (SOFC) MARKET ANALYSIS BY COUNTRIES/REGIONS**

4.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by Countries/Regions

4.2 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales by Countries/Regions (2013-2018)

4.2.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales by Countries/Regions (2013-2018)

4.2.2 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by Countries (2013-2018)



#### 4.3 North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue (Value) by Countries (2013-2018)

##### 4.3.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)

##### 4.3.2 North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Countries (2013-2018)

### **5 NORTH AMERICA AND EUROPE MARKET SEGMENTATION SOLID OXIDE FUEL CELL (SOFC) BY TYPE**

#### 5.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Market Share by Type (2013-2018)

##### 5.1.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Type (2013-2018)

##### 5.1.2 North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Type (2013-2018)

#### 5.2 Tubular Sales Growth and Price

##### 5.2.1 North America and Europe Tubular Sales Growth (2013-2018)

##### 5.2.2 North America and Europe Tubular Price (2013-2018)

#### 5.3 Planar Sales Growth and Price

##### 5.3.1 North America and Europe Planar Sales Growth (2013-2018)

##### 5.3.2 North America and Europe Planar Price (2013-2018)

#### 5.4 Others Sales Growth and Price

##### 5.4.1 North America and Europe Others Sales Growth (2013-2018)

### **6 NORTH AMERICA AND EUROPE MARKET SEGMENTATION SOLID OXIDE FUEL CELL (SOFC) BY APPLICATION**

#### 6.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

#### 6.2 Transportation Sales Growth (2013-2018)

#### 6.3 Portable & Military Sales Growth (2013-2018)

#### 6.4 Stationary Sales Growth (2013-2018)

### **7 UNITED STATES SOLID OXIDE FUEL CELL (SOFC) SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS**

#### 7.1 United States Solid Oxide Fuel Cell (SOFC) Revenue, Sales and Growth Rate (2013-2018)

## 7.2 United States Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Type (2013-2018)

### 7.2.1 United States Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

### 7.2.2 United States Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

## 7.3 United States Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Application (2013-2018)

### 7.3.1 United States Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

### 7.3.2 United States Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

## 7.4 United States Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Market Share by Manufacturer (2016-2017)

### 7.4.1 United States Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Manufacturer (2016-2017)

### 7.4.2 United States Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Manufacturer (2016-2017)

## 7.5 United States Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

# **8 UNITED KINGDOM SOLID OXIDE FUEL CELL (SOFC) SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS**

## 8.1 United Kingdom Solid Oxide Fuel Cell (SOFC) Revenue, Sales and Growth Rate (2013-2018)

## 8.2 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Type (2016-2017)

### 8.2.1 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

### 8.2.2 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

## 8.3 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Application (2013-2018)

### 8.3.1 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

### 8.3.2 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

## 8.4 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Market Share by Manufacturer (2016-2017)

### 8.4.1 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Manufacturer (2016-2017)

### 8.4.2 United Kingdom Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Manufacturer (2016-2017)

## 8.5 United Kingdom Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

## **9 CANADA SOLID OXIDE FUEL CELL (SOFC) SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS**

### 9.1 Canada Solid Oxide Fuel Cell (SOFC) Revenue, Sales and Growth Rate (2013-2018)

### 9.2 Canada Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Type (2013-2018)

#### 9.2.1 Canada Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

#### 9.2.2 Canada Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

### 9.3 Canada "&Sheet1!\$B\$1&" Sales and Market Share by Application (2013-2018)"

#### 9.3.1 Canada Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

### 9.3.2 Canada Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

### 9.4 Canada Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Market Share by Manufacturer (2016-2017)

### 9.4.1 Canada Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Manufacturer (2016-2017)

### 9.4.2 Canada Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Manufacturer (2016-2017)

### 9.5 Canada Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

## **10 GERMANY SOLID OXIDE FUEL CELL (SOFC) SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS**

### 10.1 Germany Solid Oxide Fuel Cell (SOFC) Revenue, Sales and Growth Rate (2013-2018)

### 10.2 Germany Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Type (2013-2018)

#### 10.2.1 Germany Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

### 10.2.2 Germany Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

### 10.3 Germany Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Application (2013-2018)

#### 10.3.1 Germany Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

### 10.3.2 Germany Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

### 10.4 Germany Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Market Share by

Manufacturer (2016-2017)

10.4.1 Germany Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Manufacturer (2016-2017)

10.4.2 Germany Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Manufacturer (2016-2017)

10.5 Germany Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

## **11 FRANCE SOLID OXIDE FUEL CELL (SOFC) SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS**

11.1 France Solid Oxide Fuel Cell (SOFC) Revenue, Sales and Growth Rate (2013-2018)

11.2 France Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Type (2013-2018)

11.2.1 France Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

11.2.2 France Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

11.3 France "&Sheet1!\$B\$1&" Sales by Application (2013-2018)"

11.3.1 France Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

11.3.2 France Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

11.4 France Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Market Share by Manufacturer (2016-2017)

11.4.1 France Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Manufacturer (2016-2017)

11.4.2 France Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Manufacturer

11.5 France Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

## **12 ITALY SOLID OXIDE FUEL CELL (SOFC) SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS**

12.1 Italy Solid Oxide Fuel Cell (SOFC) Revenue, Sales and Growth Rate (2013-2018)

12.2 Italy Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Type (2013-2018)

12.2.1 Italy Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

12.2.2 Italy Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

12.3 Italy Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Application (2013-2018)

12.3.1 Italy Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

12.3.2 Italy Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application

(2013-2018)

12.4 Italy Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Market Share by Manufacturer (2016-2017)

12.4.1 Italy Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Manufacturer (2016-2017)

12.4.2 Italy Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Manufacturer (2016-2017)

12.5 Italy Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

### **13 SPAIN SOLID OXIDE FUEL CELL (SOFC) SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS**

13.1 Spain Solid Oxide Fuel Cell (SOFC) Revenue, Sales and Growth Rate (2013-2018)

13.2 Spain Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Type (2013-2018)

13.2.1 Spain Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

13.2.2 Spain Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

13.3 Spain Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

13.3.1 Spain Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

13.3.2 Spain Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

13.4 Spain Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Market Share by Manufacturer (2016-2017)

13.4.1 Spain Solid Oxide Fuel Cell (SOFC) Sales and Market Share by Manufacturer (2016-2017)

13.4.2 Spain Solid Oxide Fuel Cell (SOFC) Revenue and Market Share by Manufacturer (2016-2017)

13.5 Spain Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

### **14 SOLID OXIDE FUEL CELL (SOFC) MARKET FORECAST (2018-2023)**

14.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Growth Rate (2018-2023)

14.2 Solid Oxide Fuel Cell (SOFC) Market Forecast by Countries/Regions (2018-2023)

14.2.1 United States Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

14.2.2 United Kingdom Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

14.2.3 Canada Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast

(2018-2023)

14.2.4 Germany Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast

(2018-2023)

14.2.5 France Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast

(2018-2023)

14.2.6 Italy Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast

(2018-2023)

14.2.7 Spain Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast

(2018-2023)

14.3 Solid Oxide Fuel Cell (SOFC) Market Forecast by Type (2018-2023)

14.3.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Forecast by Type (2018-2023)

14.3.2 North America and Europe Solid Oxide Fuel Cell (SOFC) Market Share Forecast by Type (2018-2023)

14.4 Solid Oxide Fuel Cell (SOFC) Market Forecast by Application (2018-2023)

14.4.1 North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Forecast by Application (2018-2023)

14.4.2 North America and Europe Solid Oxide Fuel Cell (SOFC) Market Share Forecast by Application (2018-2023)

## **15 SOLID OXIDE FUEL CELL (SOFC) MANUFACTURING COST ANALYSIS**

15.1 Solid Oxide Fuel Cell (SOFC) Key Raw Materials Analysis

15.1.1 Key Raw Materials

15.1.2 Price Trend of Key Raw Materials

15.1.3 Key Suppliers of Raw Materials

15.1.4 Market Concentration Rate of Raw Materials

15.2 Proportion of Manufacturing Cost Structure

15.2.1 Raw Materials

15.2.2 Labor Cost

15.2.3 Manufacturing Expenses

15.3 Manufacturing Process Analysis of Solid Oxide Fuel Cell (SOFC)

## **16 INDUSTRIAL CHAIN, SOURCING STRATEGY AND DOWNSTREAM BUYERS**

16.1 Solid Oxide Fuel Cell (SOFC) Industrial Chain Analysis

16.2 Upstream Raw Materials Sourcing

16.3 Raw Materials Sources of Solid Oxide Fuel Cell (SOFC) Major Manufacturers in 2017



## 16.4 Downstream Buyers

## **17 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS**

### 17.1 Sales Channel

#### 17.1.1 Direct Marketing

#### 17.1.2 Indirect Marketing

#### 17.1.3 Marketing Channel Future Trend

### 17.2 Distributors, Traders and Dealers

## **18 RESEARCH FINDINGS AND CONCLUSION**

## **19 APPENDIX**

### 19.1 Methodology

### 19.2 Data Source

## List Of Tables

### LIST OF TABLES AND FIGURES

Figure Solid Oxide Fuel Cell (SOFC) Picture

Table Product Specifications of Solid Oxide Fuel Cell (SOFC)

Figure North America and Europe Sales Market Share of Solid Oxide Fuel Cell (SOFC) by Types in 2017

Table Types of Solid Oxide Fuel Cell (SOFC)

Figure Tubular Picture

Figure Planar Picture

Figure Others Picture

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by Applications in 2017

Table Applications of Solid Oxide Fuel Cell (SOFC)

Figure Transportation Picture

Figure Portable & Military Picture

Figure Stationary Picture

Figure United States Solid Oxide Fuel Cell (SOFC) Revenue (Million USD) and Growth Rate (2013-2023)

Figure Canada Solid Oxide Fuel Cell (SOFC) Revenue (Million USD) and Growth Rate (2013-2023)

Figure United Kingdom Solid Oxide Fuel Cell (SOFC) Revenue (Million USD) and Growth Rate (2013-2023)

Figure Germany Solid Oxide Fuel Cell (SOFC) Revenue (Million USD) and Growth Rate (2013-2023)

Figure France Solid Oxide Fuel Cell (SOFC) Revenue (Million USD) and Growth Rate (2013-2023)

Figure Italy Solid Oxide Fuel Cell (SOFC) Revenue (Million USD) and Growth Rate (2013-2023)

Figure Spain Solid Oxide Fuel Cell (SOFC) Revenue (Million USD) and Growth Rate (2013-2023)

Table Bloom Energy Basic Information, Manufacturing Base and Competitors

Table Bloom Energy Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Bloom Energy Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Siemens Energy Basic Information, Manufacturing Base and Competitors

Table Siemens Energy Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Siemens Energy Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)



Table Aisin Seiki Basic Information, Manufacturing Base and Competitors

Table Aisin Seiki Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Aisin Seiki Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Mitsubishi Heavy Industries Basic Information, Manufacturing Base and Competitors

Table Mitsubishi Heavy Industries Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Mitsubishi Heavy Industries Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Delphi Corp Basic Information, Manufacturing Base and Competitors

Table Delphi Corp Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Delphi Corp Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table GE Basic Information, Manufacturing Base and Competitors

Table GE Solid Oxide Fuel Cell (SOFC) Type and Applications

Table GE Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Convion Basic Information, Manufacturing Base and Competitors

Table Convion Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Convion Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table FuelCell Energy Basic Information, Manufacturing Base and Competitors

Table FuelCell Energy Solid Oxide Fuel Cell (SOFC) Type and Applications

Table FuelCell Energy Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Atrex Energy, Inc Basic Information, Manufacturing Base and Competitors

Table Atrex Energy, Inc Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Atrex Energy, Inc Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table SOLIDpower Basic Information, Manufacturing Base and Competitors

Table SOLIDpower Solid Oxide Fuel Cell (SOFC) Type and Applications

Table SOLIDpower Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table ZTEK Corporation Basic Information, Manufacturing Base and Competitors

Table ZTEK Corporation Solid Oxide Fuel Cell (SOFC) Type and Applications

Table ZTEK Corporation Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Redox Power Systems Basic Information, Manufacturing Base and Competitors

Table Redox Power Systems Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Redox Power Systems Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Ceres Basic Information, Manufacturing Base and Competitors

Table Ceres Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Ceres Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Elcogen Basic Information, Manufacturing Base and Competitors

Table Elcogen Solid Oxide Fuel Cell (SOFC) Type and Applications

Table Elcogen Solid Oxide Fuel Cell (SOFC) Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales by Manufacturer (2016-2017)

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2016

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2017

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer (2016-2017)

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2016

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2017

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Price by Manufacturers (2016-2017)

Figure Top 3 Solid Oxide Fuel Cell (SOFC) Manufacturer Market Share in 2016

Figure Top 3 Solid Oxide Fuel Cell (SOFC) Manufacturer Market Share in 2017

Figure Top 5 Solid Oxide Fuel Cell (SOFC) Manufacturer Market Share in 2016

Figure Top 5 Solid Oxide Fuel Cell (SOFC) Manufacturer Market Share in 2017

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Sales and Growth (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales by Countries/Regions (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by Countries (2013-2018)

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by Countries in 2013

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Market Share by

Countries in 2017

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue by Countries (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Countries (2013-2018)

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Countries in 2013

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Countries in 2017

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Share by Type (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue by Type (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Revenue Share by Type (2013-2018)

Figure North America and Europe Tubular Sales Growth (2013-2018)

Figure North America and Europe Tubular Price (2013-2018)

Figure North America and Europe Planar Sales Growth (2013-2018)

Figure North America and Europe Planar Price (2013-2018)

Figure North America and Europe Others Sales Growth (2013-2018)

Figure North America and Europe Others Price (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Share by Application (2013-2018)

Figure North America and Europe Transportation Sales Growth (2013-2018)

Figure North America and Europe Portable & Military Sales Growth (2013-2018)

Figure North America and Europe Stationary Sales Growth (2013-2018)

Figure United States Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)

Figure United States Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate (2013-2018)

Table United States Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

Table United States Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

Table United States Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

Table United States Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

Table United States Solid Oxide Fuel Cell (SOFC) Sales by Manufacturer (2016-2017)

Figure United States Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2016

Figure United States Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2017

Table United States Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)

Figure United States Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2016

Figure United States Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2017

Table United States Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

Figure United Kingdom Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)

Figure United Kingdom Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate (2013-2018)

Table United Kingdom Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

Table United Kingdom Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

Table United Kingdom Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

Table United Kingdom Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

Table United Kingdom Solid Oxide Fuel Cell (SOFC) Sales by Manufacturer (2016-2017)

Figure United Kingdom Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2016

Figure United Kingdom Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2017

Table United Kingdom Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)

Figure United Kingdom Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2016

Figure United Kingdom Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2017

Table United Kingdom Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

Figure Canada Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)

Figure Canada Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate (2013-2018)

Table Canada Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)  
Table Canada Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)  
Table Canada Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)  
Table Canada Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)  
Table Canada Solid Oxide Fuel Cell (SOFC) Sales by Manufacturer (2016-2017)  
Figure Canada Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2016  
Figure Canada Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2017  
Table Canada Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)  
Figure Canada Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2016  
Figure Canada Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2017  
Table Canada Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)  
Figure Germany Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)  
Figure Germany Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate (2013-2018)  
Table Germany Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)  
Table Germany Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)  
Table Germany Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)  
Table Germany Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)  
Table Germany Solid Oxide Fuel Cell (SOFC) Sales by Manufacturer (2016-2017)  
Figure Germany Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2016  
Figure Germany Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2017  
Table Germany Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)  
Figure Germany Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2016  
Figure Germany Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2017  
Table Germany Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)  
Figure France Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)  
Figure France Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate (2013-2018)  
Table France Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)  
Table France Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)  
Table France Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)



Table France Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

Table France Solid Oxide Fuel Cell (SOFC) Sales by Manufacturer (2016-2017)

Figure France Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2016

Figure France Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2017

Table France Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)

Figure France Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2016

Figure France Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2017

Table France Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

Figure Italy Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)

Figure Italy Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate (2013-2018)

Table Italy Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

Table Italy Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

Table Italy Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

Table Italy Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

Table Italy Solid Oxide Fuel Cell (SOFC) Sales by Manufacturer (2016-2017)

Figure Italy Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2016

Figure Italy Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2017

Table Italy Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)

Figure Italy Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2016

Figure Italy Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2017

Table Italy Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

Figure Spain Solid Oxide Fuel Cell (SOFC) Revenue and Growth Rate (2013-2018)

Figure Spain Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate (2013-2018)

Table Spain Solid Oxide Fuel Cell (SOFC) Sales by Type (2013-2018)

Table Spain Solid Oxide Fuel Cell (SOFC) Sales Market Share by Type (2013-2018)

Table Spain Solid Oxide Fuel Cell (SOFC) Sales by Application (2013-2018)

Table Spain Solid Oxide Fuel Cell (SOFC) Sales Market Share by Application (2013-2018)

Table Spain Solid Oxide Fuel Cell (SOFC) Sales by Manufacturer (2016-2017)

Figure Spain Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2016

Figure Spain Solid Oxide Fuel Cell (SOFC) Sales Market Share by Manufacturer in 2017

Table Spain Solid Oxide Fuel Cell (SOFC) Revenue by Manufacturer (2016-2017)

Figure Spain Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2016

Figure Spain Solid Oxide Fuel Cell (SOFC) Revenue Market Share by Manufacturer in 2017

Table Spain Solid Oxide Fuel Cell (SOFC) Export and Import (2013-2018)

Figure North America and Europe Solid Oxide Fuel Cell (SOFC) Sales, Revenue and Growth Rate (2018-2023)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Forecast by Countries/Regions (2018-2023)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Market Share Forecast by Countries/Regions (2018-2023)

Figure United States Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

Figure United Kingdom Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

Figure Canada Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

Figure Germany Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

Figure France Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

Figure Italy Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

Figure Spain Solid Oxide Fuel Cell (SOFC) Sales and Growth Rate Forecast (2018-2023)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Forecast by Type (2018-2023)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Market Share Forecast by Type (2018-2023)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Sales Forecast by Application (2018-2023)

Table North America and Europe Solid Oxide Fuel Cell (SOFC) Market Share Forecast by Application (2018-2023)

Table Sales Base and Market Concentration Rate of Raw Material

Figure Price Trend of Key Raw Materials

Table Key Suppliers of Raw Materials

Figure Manufacturing Cost Structure of Solid Oxide Fuel Cell (SOFC)

Figure Manufacturing Process Analysis of Solid Oxide Fuel Cell (SOFC)

Figure Solid Oxide Fuel Cell (SOFC) Industrial Chain Analysis

Table Raw Materials Sources of Solid Oxide Fuel Cell (SOFC) Major Manufacturers in 2017

Table Major Buyers of Solid Oxide Fuel Cell (SOFC)

Table Distributors/Traders/ Dealers List



## I would like to order

Product name: North America and Europe Solid Oxide Fuel Cell (SOFC) Market by Manufacturers, Regions, Type and Application, Forecast to 2023

Product link: <https://marketpublishers.com/r/N21230296D7EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N21230296D7EN.html>